



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



National Curriculum 2014 Attainment Target	Lesson Outcomes	Topic Overview	Useful Resources and Links	Links to Year Group Medium Term Planning	Completion Notes
<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Use search technologies effectively.</p> <p><u>Pupils Asset Objectives</u></p> <p>Uses search technologies effectively</p> <p>Uses a variety of software to accomplish given goals</p> <p>Uses technology responsibly</p> <p>Uses search technologies effectively</p>	<p>I can use bullet points, numbers, speech bubbles, auto shapes and text boxes to organise my work.</p> <p>I can use the spell checker to edit most spellings.</p> <p>I can create pieces of work that show some awareness of an audience.</p>	<p><u>How Do Plants Grow? – The Potato Story</u></p> <p>Challenge – Can your record what you learn from the video in a clear way?</p> <p>Watch the Potato story as a class.</p> <p>Re-watch the video in differentiated pairs and make notes on the key parts of a plant – roots, stem, leaves and flower</p> <p><i>Lower ability to focus on this with support from the teacher regarding how to present their findings.</i></p> <p><i>Higher ability given opportunity to choose their own method of recording – table, bullet points, text boxes, etc... and emphasis.</i></p> <p><i>Higher ability to expand to what a plant needs to grow – Light, Water, Warmth, Nutrients.</i></p> <p>Extension challenge – What parts do we eat? Tuber, root, fruit, seed, leaf, stem – can you find examples.</p> <p>Use spell check to correct spellings.</p> <p><i>Key Question - Who is the "author" of the information? (McCain)</i> <i>Does the fact that they sell chips make you trust the information more or less? (discussion).</i></p> <p><i>Key Question – If we were trying to teach year 1 or reception something what would be need to be careful about? Discuss use of language, length of animation, level of detail – Mind map on the board.</i></p>	<p>Lesson PowerPoints</p> <p>McCain's Potato Story http://www.thepotatostory.co.uk/default.aspx?section=lifecycles&subsection=plantgrowth3 4</p> <p>Microsoft Word</p>	<p>Learning Challenge 1: How does your garden grow?</p> <p>Learning Challenge 3: How do plants quench their thirst?</p>	



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Use search technologies effectively.</p> <p><u>Pupils Asset Objectives</u></p> <p>Uses search technologies effectively</p> <p>Uses a variety of software to accomplish given goals</p> <p>Creates and improves digital content</p> <p>Uses technology responsibly</p> <p>Uses search technologies effectively</p>	<p>I can insert still and moving images into different programs.</p> <p>I can create pieces of work that show some awareness of an audience.</p> <p>With support, I can edit and reorganize sounds, using recording software, to remove any mistakes.</p>	<p><u>How Do Plants Grow? – Animating our understanding</u></p> <p>Demonstrate how to use 2Animate using Ranger Remote Control.</p> <p>Use paint skills to create a short stop motion animation on the roles of the following:</p> <ul style="list-style-type: none"> • Roots • Stem • Leaves • Flower <p><i>Lower ability to follow along with leaves example.</i></p> <p>Animations to be saved as an animated GIF in appropriate folder using an appropriate name.</p> <p>Introduce Audacity – Red Round Record Button, Play and Stop – Children to ignore pause.</p> <p>Read adapted explanation (for use with Reception) into Audacity.</p> <p><i>Key Question - What is a sound wave? Discuss using the beach analogy.</i></p> <p>With support, pupils listen back to their recordings and remove any errors or silence using left click and delete.</p> <p><i>Higher ability to use pitch effects to alter their recordings.</i></p> <p>Export as WAV into a chosen folder.</p> <p>Import completed animated GIF and WAV into PowerPoint – alter timings and hide sound.</p> <p>Use ‘rehearse slide show timings’ to dictate length of animation and save as WMV.</p> <p>Teacher to edit final animations together ready to present to Reception children.</p>	<p>Lesson PowerPoints</p> <p>2Animate</p> <p>Audacity</p> <p>Microsoft PowerPoint</p>	<p>Learning Challenge 1: How does your garden grow?</p> <p>Learning Challenge 3: How do plants quench their thirst?</p>	
--	---	--	---	---	--



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



		<p><i>Key Question – What different types of video can you save as? Explore different export options – discuss how different formats are different sizes (link with Washington 50th Birthday Video)</i></p>			
<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p><u>Pupils Asset Objectives</u></p> <p>Uses a variety of software to accomplish given goals</p> <p>Collects and sorts data in different ways to answer questions.</p>	<p>I can sort a database to answer simple questions.</p> <p>With support, I can create clearly labelled graphs and use them to present back my findings.</p>	<p><u>Creating a human bar chart – 1 lesson (linked with outdoor learning week)</u></p> <p>Introduce what we are having for dinner the week - 5 options - each child gets 2 votes. Tally'er counts the votes and records on flip chart (with image of each meal).</p> <p>On yard explain how bar charts work - Build human bar chart by holding images in the correct place – 1 child is needed to play the y axis (post-it-notes) and 5 children play the x axis (1 per food).</p> <p>Enter their results into a pre-prepared spreadsheet and create a simple bar chart.</p> <p>Label it clearly and reformat to make it easier to interpret (legend, colours).</p> <p>Introduce sort button in order to answer the following questions:</p> <p><i>Which food is the most popular?</i></p> <p><i>Which food is the least popular?</i></p>	<p>Lesson PowerPoints</p> <p>Lesson breakdown / instructional video http://www.tes.co.uk/teaching-resource/Teachers-TV-Primary-Maths-Data-Handling-6045041/</p> <p>Still images of school dinners</p> <p>Post-it-Notes</p> <p>A1 paper and pens</p> <p>2Graph</p> <p>Microsoft Excel</p>	<p>N/A</p> <p>Maths Links – Handling Data</p>	
<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>	<p>I can use the cut, paste and crop tools.</p> <p>I can use the spell checker to edit most spellings</p>	<p><u>Reordering and Correcting Text – Guy Fawkes (1 lesson to coincide with Bon Fire Night)</u></p> <p>Demonstrate how password challenge works using example – Spreadsheet model.</p> <p>Refresh how to:</p> <ul style="list-style-type: none"> Cut, paste and move text. 	<p>Lesson PowerPoints</p> <p>Pre-prepared Word documents with mixed up sentences.</p> <p>Password Challenge Spreadsheet model</p> <p>Disney Fireworks</p>	<p>N/A</p>	



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p><u>Pupils Asset Objectives</u></p> <p>Creates and improves digital content</p>		<ul style="list-style-type: none"> How to correct spellings. <p>Reorganise paragraph on Guy Fawkes – Differentiated length and complexity</p> <p>LA – Who was Guy Fawkes (3 sentences) MA – What was the gunpowder plot (5 sentences) HA – What happened to GF (5 sentences)</p> <p>When sentences are in the right order, enter colours into the spreadsheet to reveal the password.</p> <p>Use spell check using the Review menu before saving and printing.</p> <p>Enter the correct password to reveal URL to Disney fireworks game (introduces the idea of time lines)</p> <p>Alternative – Reordering the lyrics to Jingle Bells Batman Smells.</p>	<p>game: http://www.disney.co.uk/disney-create/fireworks/</p> <p>Jingle Bells Batman Smells.docx</p> <p>Jingle Bells Batman Smells video - https://www.youtube.com/watch?v=8zrFkkljw74</p>		
<p>Use technology safely, respectfully and responsibly; know a range of ways to report concerns and inappropriate behaviour.</p> <p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Use search technologies</p>	<p>I can improve my work by selecting appropriate tools to add emphasis and effect (e.g. centre, font size, font colour and B, U and I).</p> <p>I can create my own folder & usually save my work in it.</p> <p>I understand the need for rules to keep me safe when using technology of when online and can follow my own and the school's rules.</p> <p>I can recognise that cyber bullying is unacceptable and the consequences of taking apart in it.</p> <p>I know how to report an incident of cyber bullying.</p>	<p><u>Introduction to Cyber-Bullying (linked with ant bullying week)</u></p> <p>Watch Smart Crew Video – Episode 4</p> <p><i>Key Question – What should you do if cyber bullying is happening?</i> Class discussion and mind map on the board.</p> <p>Choose one of the rules and use Word Art and effects to add emphasis. Best rules to be displayed on the wall.</p> <p>Following teacher demonstration – create an appropriate folder (called E-Safety) and save PowerPoint into it.</p> <p>Export their finished tip as an image.</p>	<p>Smart Crew Ep 4 WMV</p> <p>Lesson PowerPoints</p> <p>Microsoft PowerPoint</p>	<p>N/A</p> <p>PSHE Links</p>	



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p>effectively.</p> <p><u>Pupils Asset Objectives</u> Creates and improves digital content</p> <p>Uses technology responsibly</p> <p>Identifies a range of ways to report concerns.</p> <p>Recognises the importance of staying safe and methods achieve this.</p> <p>Recognises cyber-bullying and the consequences of taking part.</p>					
<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p>Recognise common uses of information technology beyond school (Key Stage 1 objective carried into Key Stage 2).</p> <p>Use search technologies effectively.</p>	<p>I can use a branching database to answer questions.</p> <p>I can use a branching database to classify and identify objects.</p>	<p><u>Branching Databases</u></p> <p><i>Key Questions –What is data?</i> Compare data and information using filing cabinet example.</p> <p><i>What is a database?</i> Introduce key terms field and record.</p> <p><i>Why use a branching database?</i> Discuss the usefulness of having 1 answer/result per branch.</p> <p>Introduce Branching database as using yes and no questions – play 20 questions/post-it-note game to reinforce the point.</p> <p>Use farm animals' example to show pupils how a branching database works on whiteboard.</p> <p>Create their own branching database using a differentiated set of 2D shapes (Higher ability to classify more shapes = bigger database)</p>	<p>Lesson PowerPoints</p> <p>Farm Branching Database PowerPoint</p> <p>Post-it-Notes</p> <p>Shape sorting game: http://www.iboard.co.uk/iwb/Sorting-Shape-Tree-289</p> <p>Who stole the bird's song game: http://www.rspb.org.uk/discoverandenjoynature/families/children/play/buzz.aspx</p>	<p>Maths Links - Shape</p>	



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p><u>Pupils Asset Objectives</u></p> <p>Collects and sorts data in different ways to answer questions.</p>		<p>As a class, combine questions on flip chart paper to create an overall database to classify all the common 2D shapes (up to octagon).</p> <p>Introduce use of printscreen and crop in order to keep electronic evidence.</p> <p>Investigate which animal has stolen the birds' song sheet using</p>			
<p>Design, write and debug programs that accomplish specific goals.</p> <p>Use sequence, selection, and repetition in programs.</p> <p><u>Pupils Asset Objectives</u></p> <p>Writes programs that accomplish specific goals.</p> <p>Debugs simple programs.</p> <p>Uses a variety of software to accomplish given goals</p>	<p>I can use 90 degree and/or 180 degree turns within my programs.</p> <p>I can write programs to create simple animations, control avatars and draw common regular shapes.</p>	<p><u>Programming using Logo – Drawing 2D shapes</u></p> <p>Play the degrees game – angles as a measurement of turn – Based on traffic lights – 90 degrees, 180 degrees, 270 degrees and 360 degrees.</p> <p>Introduce 2Logo – hand out basic commands table – teacher to demo each command on whiteboard.</p> <p>Apply the above by giving the turtle 1 instruction at a time (the slow method).</p> <p><i>Higher ability to adapt square programming to create a rectangle.</i></p> <p>Introduce use of the repeat command – compare with how this could work with a BeeBot.</p> <p>Apply repeat command to create a square and circle.</p> <p><i>Higher ability adapt the latter to create a semi-circle.</i></p> <p><i>Key Question - What is programming?</i> Teacher-led discussion focusing on text and visual programming – using relevant examples – Scratch, Kodu, Windows, MS Dos, Java.</p> <p>Must save as a GIF as .logo files are empty.</p>	<p>Logo program (not MS Logo due to saving issues) – Alternatively, can be saved as a BMP image.</p> <p>Lesson PowerPoints</p> <p>Basic Command Tables</p>	<p>Maths Links – Angles and Measurement</p>	
			<p>Lesson PowerPoints</p>	<p>N/A</p>	



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p>Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts.</p> <p>Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.</p> <p>Detect and correct errors in algorithms and programs.</p> <p><u>Pupils Asset Objectives</u></p> <p>Writes programs that accomplish specific goals.</p> <p>Debugs simple programs.</p> <p>Uses a variety of software to accomplish given goals</p>	<p>I can use 90 degree and/or 180 degree turns within my programs.</p> <p>I can write programs to create simple animations, control avatars and draw common regular shapes.</p> <p>I can test, changes and fix errors in my instructions and programs.</p>	<p>Animating Santa's Sleigh using Scratch</p> <p><i>Key Question- What is computer programming? Relate to instructions given to BeeBots – Discuss the use of visual and text based programming (Link to 2Logo from last lesson).</i></p> <p>Introduce Scratch. Follow along to achieve the following:</p> <ul style="list-style-type: none"> • Importing Santa sprite and city background. • Programming the sleigh to move using a loop. • Following the mouse pointer and setting a starting point. • Higher ability to add a break (using a move command that has a negative number assigned) • Stop program command could also be added. <p>Run the program and debug – move 0 steps.</p>	<p>Scratch</p>		
<p>Select, use and combine a variety of software (including internet services) on a range of digital devices to</p>	<p>I can add records into a prepared database.</p> <p>I can sort a database to answer simple</p>	<p><u>Creating a bar chart about Christmas films</u></p> <p>(I)- <i>What is your favourite Christmas movie?</i> Use a tally chart to collect data on the top 5 Christmas films.</p> <p>Teacher to source transparent PNGs to represent each movie and save to the</p>	<p>ChristmasFilms.xls</p> <p>Lesson PowerPoint</p>		



Usworth Colliery Primary School

ICT Medium Term Plan - Year 3 - Autumn



<p>accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p> <p><u>Pupils Asset Objectives</u></p> <p>Uses a variety of software to accomplish given goals</p> <p>Collects and sorts data in different ways to answer questions.</p>	<p>questions.</p> <p>With support, I can create clearly labelled bar graphs and use them to present back my findings.</p>	<p>shared area.</p> <p>Enter results into a pre-prepared spreadsheet and create a simple bar chart.</p> <p><i>Alter images in the pictogram using the transparent PNGs collected.</i></p> <p>Label it clearly and reformat to make it easier to interpret (legend, colours).</p> <p>Introduce sort button in order to answer the following questions:</p> <p><i>Which film is the most popular?</i></p> <p><i>Which film is the least popular?</i></p>			
---	---	---	--	--	--